JVC®

The Perfect Experience

DIGITAL VIDEO STORAGE 2006

DVD Recorders / DVD Players

D-VHS Recorders / Video Decks

Recording Media

The Total Recording Solution

Large storage capacity, high-speed signal processing, and flexibility — JVC's extensive background in video technologies ensures the superior performance of our DVD recorders. Enjoy digital video storage from wider sources — with superb picture quality, versatile dubbing/editing functions, and a number of other exclusive advantages.

Compatibility with Various Disc Formats

Recording is available in **DVD-RAM**, **DVD-RW** or **DVD-R** format, letting you choose the most suitable one depending on the purpose or contents. Playback is possible with a vast majority of audio and video disc formats: **DVD-Video**, **DVD-RAM**, **DVD-RW/+RW**, **DVD-R/+R**, **SVCD**, **VCD**, **CD** and **CD-R/RW**. You can also enjoy **WMA/MP3** music files or **JPEG*** files burned on a CD-R or CD-RW. The Slide Show function enhances the fun of viewing JPEG digital still images.

* The baseline JPEG format is supported.

Advanced Technologies for Recording and Playback

Recording and Playback Technologies for High Resolution and Less Noise

1) Super MPEG Encode Pre-Processor

• **Time Base Corrector** eliminates jitter contained in analog input signals

• **Frame Synchroniser** corrects frame crossover jitter and processes any deviant frames.

• **Motion Active Noise Reduction System** reduces the noise of moving pictures by precisely detecting the motion. Ecoded images — especially moving subjects — are free of edge smear and image lag.

2) Super MPEG Post-Processor

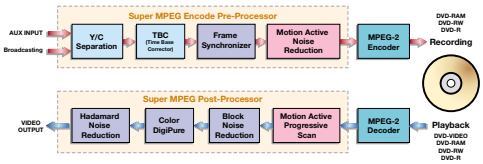
• **Block Noise Reduction Circuit** reduces annoying "block noise".

• **Colour DigiPure** conducts 3D noise reduction and enhances color and detail.

• **Hadamard Noise Reduction System** eliminates "mosquito noise", without affecting the details or unnaturally enhancing original pictures.

3) Motion Active Progressive Scan Output generates a progressive scan signal from interlaced sources, such as TV programs recorded on HDD/DVD.

4) Digital Direct Progressive Scan Output



outputs the original progressive data — a movie on pre-recorded DVD, for example — without converting to interlaced data, so there is no quality loss.

Longer Recording with High Resolution Pictures (DVD-RAM/DVD-RW VR Format)

The quality of images tends to degrade with longer recordings, due to the trade-off between reducing noise and maintaining resolution. However, JVC provides a solution to this problem. For example, in the 3-hour recording mode (FR180), MPEG noise is reduced while maintaining a 400-line horizontal resolution, compared to conventional technology that reduces the resolution to about 250 lines.

Hard Disk Drive — Outstanding Capacity, Speed, and Flexibility

Store and Archive Your Favorite Content

The 250GB HDD allows a max. 473 hours of recording and lets you easily transfer the stored programs to DVD discs for archiving. It is also convenient when you do not want to miss any of your favorite TV programs while away from home.

In addition, JVC's HDD automatically activates Temporary Loop Recording when the unit is turned on. This lets you "go back" and watch or record a program you missed, because it records TV programs (up to a specified number of minutes/hours) in a continuous loop.

Live Memory

While you're watching a broadcast in real-time, Live Memory is saving the program on Hard Disk temporarily so a ringing door bell or other interruption won't disrupt your TV viewing enjoyment.

Simultaneous Recording/Playback

You can watch a program recorded on the HDD, while recording another on HDD or DVD. You can also watch a DVD, while recording another on Hard Disk.

RetroActive Recording

If you like the TV show you're watching and want to save it for reviewing, Live Memory lets you "go back" and start recording it from the beginning or from any previous points during the show*. * Program (channel) currently being viewed.

User-Friendly Features

Library Database DVD Navigation and Animated Thumbnail (DVD-RAM/DVD-RW VR Format)

Information for up to 2,000 programs — including their titles, disc numbers, dates of recording, and more — can be memorized. When you choose one, the player tells you which disc to load. Once loaded, choosing the right program on the disc is as easy as clicking on a thumbnail image. It even animates (the image moves!), complete with sound, for sure selection.

The Exclusive Benefits of Combined DVD Recorder + HDD

Playlist-Based Editing

The Hard Disk's flexibility allows you to edit scenes of recorded programs as you like. Record a program on the HDD, and you can change the order of scenes, delete unwanted parts of a recording, and insert scenes from other titles. A window shows the scene, and the Preview and Retry functions ensure you won't make a mistake. Then, at the touch of a button, they're dubbed over to a DVD. Up to 99 Playlists can be stored, allowing you to set maximum 99 scenes.

Freezeless Editing* for DVD Disc (HDD→DVD)

JVC's advanced technologies allow precise editing of HDD-recorded content — with minimum unwanted scenes left in, and without eliminating scenes you want to keep.
The technologies also solve the problem of image freeze for DVD-dubbed footage, which is often seen in pictures edited with conventional recorders.

* Freezing may remain with materials dubbed at high speed to DVD.

HDD/DVD/MiniDV Video Recorder Combo

DR-DX5S

Hard Disk Recorder | DVD Recorder | MiniDV Recorder

HDD+DVD+MiniDV Triple Recorder with 250GB HDD, featuring 6-Way Dubbing, Bit-Rate Optimizer, High-Speed Dubbing (Max. 64x), and Super MPEG Encode Pre- & Post-Processors

- Playable Formats: MiniDV, HDD, DVD-Video, DVD-RAM, DVD-RW, DVD-R, CD, SVCD, VCD, CD-R/RW, WMA/MP3/JPEG Digital Still (CD-R/RW)
- Recordable Formats: MiniDV, HDD, DVD-RAM, DVD-RW (VR and Video Formats), DVD-R
- 250GB HDD (Up to 473 Hrs. Recording)
- Progressive Scan Output
- i.LINK Connection (DV Input for HDD/DVD/MiniDV, DV Output for MiniDV)
- VCR Plus+ (HDD/DVD)
- Dolby Digital/DTS Digital Output (HDD/DVD)
- Component Video Output

High-Quality Picture

• DV-Format Recording (MiniDV) • Bit-Rate Optimizer (Intelligent Dual-Pass Encode Dubbing System) (HDD→DVD) • Motion Active Progressive Scan Output (for Video Source) • Digital Direct Progressive Scan Output (for Film Source) • Super MPEG Encode Pre-Processor: Time Base Corrector, Frame Synchronizer and Motion Active Noise Reduction • Super MPEG Post-Processor: Block Noise Reduction Circuit, Color DigiPure and Hadamard Noise Reduction System

Recording/Viewing

• 16-Hour DVD Recording (on Double-Sided Disc) • Live Memory (HDD/DVD-RAM) • Simultaneous Recording and Playback (HDD/DVD-RAM) • Relief Recording (HDD) • Linear PCM Audio Recording (XP Mode Only) • 1.5x Quick Playback with Sound (HDD)

Editing/Dubbing

• 6-Way Dubbing • Freezeless Editing for DVD Disc (HDD→DVD) • High-Speed Dubbing, Max. 64x (HDD→DVD) • Playlist-Based Editing (HDD/DVD) • Just Dubbing (HDD→DVD) • Easy Program Dubbing (HDD/DVD)

User-Friendly

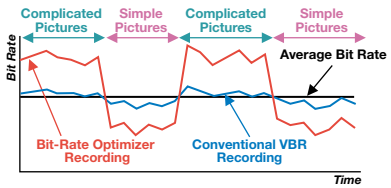
• Library Database DVD Navigation • Animated Thumbnail on HDD/DVD Navigation (DVD-RAM/DVD-RW VR Format) • High-Resolution GUI (English/French/Spanish) • DVD-R Menu Screen with Thumbnail (18 Designs)

With the door on the front panel fully opened

Bit-Rate Optimizer (Intelligent Dual-Pass Encode Dubbing System) (HDD→DVD)

DVDs recorded at higher bit rates offer superior quality, but their capacity may be insufficient for long programs. Most DVD recorders handle this by reducing the overall bit rate.

JVC's innovative Bit-Rate Optimizer, based on the Intelligent Dual-Pass Encode Dubbing System, analyzes the content as it is recorded on the HDD and then intelligently optimizes the bit rates — low for simple scenes, high for complicated scenes. This provides the best picture quality, while still fitting the entire program on the disc.



High-Speed Dubbing (HDD→DVD)

Dubbing video contents from Hard Disk Drive to DVD can be completed at an incredibly high speed — up to 64 times the normal speed*. A one-hour program can be copied to a DVD disc in less than 1 minute.

* Possible when an FR480-mode-recorded program is copied to a DVD-R disc compatible with 8x recording.

DVD Video Recorder & VHS Hi-Fi Stereo Video Recorder Combo

DVD Recorder | VHS Recorder

DR-MV7S

DVD+VHS Recorder with Versatile Compatible Formats including DivX, featuring HDMI Digital Output with 1080i/720p Up-Conversion (DVD/VHS)

- Playable Formats: VHS Hi-Fi, DVD-Video, DVD-RW, DVD-R, +RW, +R, CD, SVCD/VCD, CD-R/RW, WMA/MP3/JPEG Digital Still/DivX (CD-R/RW, DVD-R/RW, +R/+RW)
- Recordable Formats: VHS Hi-Fi, DVD-RW, DVD-R, +RW, +R
- Progressive Scan Output
- HDMI Digital Output with 1080i/720p Up-Conversion (DVD/VHS)
- i.LINK Connection (DV Input)
- SQPB
- Dolby Digital/DTS Digital Output (DVD)
- Component Video Output
- DVD↔VHS Dubbing
- 12-Hour DVD Recording (on Double-Sided Disc)
- Playlist-based Editing (DVD)
- 1.5x Quick Playback with Sound
- High-Resolution GUI (English/French/Spanish/Portuguese)
- Stylish, Slim Design — Only $3\frac{1}{8}$" (78.5mm) High

HDMI Digital Output (DVD/VHS)

The DR-MV7 comes with HDMI (High-Definition Multimedia Interface), a next-generation digital interface. Advantages include:

1) A single cable connection for transmitting uncompressed video and audio signals.
2) Digital-to-digital transmission for lossless, high-quality pictures.
3) Video signal conversion from 480i (interlaced)/480p (progressive) to 720p or 1080i.
4) HDCP (High-bandwidth Digital Content Protection) is supported.

		Analog	Digital	
		Component	DVI	HDMI
Cable	Video	3	1	1
	Audio	2	2	
PC Compatibility		-	Yes	Yes
Content Protection		-	Yes	Yes
Signal Format		YPbPr	RGB	YPbPr/RGB
Application		Consumer AV	PC	Consumer AV

i.LINK Connection

The i.LINK terminal permits digital connection with other equipment, including MiniDV video cameras. The input DV signal is directly converted to the MPEG-2 format — a digital-to-digital conversion which ensures high-quality images with less noise and less loss. This connection also lets you control the DV unit using the DVD recorder's remote.

Technologies for High Resolution in Sound and Vision

NTSC Progressive Compatibility and Digital Direct Progressive Scan Output

JVC's DVD players provide smooth, sharp, high-resolution images in NTSC progressive format. Moreover, the Digital Direct Progressive Scan Output delivers the NTSC-progressive pictures without converting the original frames to the interlaced one when viewing a movie. The result is a reduction of conversion loss, which translates into natural, smooth images.


Interlace Scanning


Progressive Scanning

192kHz/24-bit Audio D/A Converter

Combining 8-times oversampling/192kHz with 24-bit resolution, the JVC DVD players offer astounding sound quality with high clarity and fidelity.

Ease of Use, Comfort, and Convenience

Vari-Play with Sound & Subtitles

The units deliver Quick/Slow Playback complete with sound and subtitles. The 1.2x/1.5x Quick Playback permits fast check of program content without missing subtitles. The 0.6x/0.8x Slow Playback with sound and subtitles makes rapid speech easier to follow.

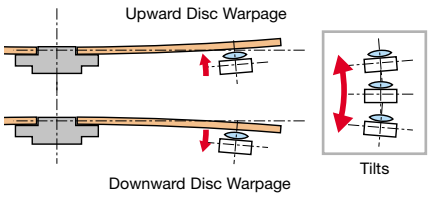
Variable Speed

Express Play Start

Turn on the system and load a disc into the DVD player. The first movie scene appears on screen with virtually no waiting. Express Play Start has a unique algorithm to identify media and optimize parameters, the wait for the show to start is over.

Rolling Pickup

JVC's laser pickup has been known for superior resistance against mistracking caused by the variable thicknesses of two-sided discs, serious scratches, disc wobbling and non-concentricity. JVC developed a higher-performance pickup — the Rolling Pickup — that follows wandering tracks and plays warped discs with impeccable precision. You can play difficult discs and enjoy movies with JVC DVD players when you can't with other players.



Track Adjust — For Noise-Free Playback of Privately-Created Discs

Track Adjust is a JVC software innovation for noise-free* playback of difficult discs. It applies special signal processing to improve tracking accuracy to playback uncentered, scratched, or poorly-recorded discs — problems often seen with privately created DVDs. Three modes are available — Normal for overall improvement, plus two modes geared specifically for scratched or uncentered discs. The last mode used for a particular disc can be memorized by the Disc Resume function (available for the last 30 loaded discs).


Conventional

Track Adjust

* "Noise" refers to block noise or picture freeze. The effectiveness of noise reduction depends on the seriousness of scratches, uncenteredness, or other problems with the disc.

XV-N332S

XV-N330B

DVD Video Player

XV-N332S **XV-N330B**

DVD Video Player with Progressive Scan, featuring Multi-Format Playback, Track Adjust, Vari-Play (w. Sound & Subtitles), and Express Play Start

- Playable Formats: DVD-Video, DVD-RW, DVD-R, +RW, +R, CD, CD-R/RW, SVCD/VCD, MP3/JPEG Digital Still (CD-R/RW)
- Progressive Scan Output
- PAL Playback on NTSC TV
- Dolby Digital/DTS Digital Output
- Component Video Output
- Digital Direct Progressive Scan Output
- 192kHz/24-bit Audio D/A Converter
- 10-bit/54MHz Video D/A Converter
- Track Adjust — for Noise-Free Playback of Privately-Created Discs
- Vari-Play (Variable-Speed Playback) with Sound and Subtitles (1.5x/1.2x/1.0x/0.8x/0.6x)
- Express Play Start
- Rolling Pickup
- VFP (Video Fine Processor): 7 Parameters with 2 Presets and 2 Manual Settings
- High-Resolution GUI (Graphical User Interface)
- One-Touch Replay (10 Sec.)
- Zoom Play (3 Steps)
- Resume Function (30 Discs)
- Stylish, Ultra-Slim Design — Only $1\frac{3}{4}$" (44mm) High

Note: Some CD-R and CD-RW (Linear PCM/MP3/JPEG/SVCD/VCD) discs, as well as some DVD-R/+R discs, may not be played properly depending on their condition. Normally, DVD-R/+R discs recorded with the DVD VIDEO format can be played back, but there are some that may not because of the disc characteristics or recording condition.

Integrated Digital Terrestrial Receiver

Integrated HDTV

The integrated digital terrestrial receiver is all you need to enjoy full access to ATSC digital terrestrial broadcasts, all the way from standard definition (SD) to 1080i high definition. Since the digital terrestrial receiver is built in, you do not need an IEEE 1394 connection and an extra STB (for ATSC broadcasts). The HM-DT100 receives all forms of ATSC digital terrestrial programs including high-definition broadcasts, records them exactly "as they are" with no loss of quality, and plays them back whenever you want.

Single, Uncompressed, Digital HDMI™ Connection with Content Protection (HDCP) Technology

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Adopted by over 100 manufacturers, the digital HDMI™ interface is already set to become the standard of the future. It delivers uncompressed digital video and audio signals to your display, so there is no signal deterioration. HDMI™ prevents any signal loss by transferring video digitally, without going through an analog interface or performing unnecessary digital-to-analog conversions, delivering a pristine signal that produces lossless images identical to the original. Not only does HDMI™ give you the highest quality images, but also true-to-life sound to intensify your home theater experience.

Backed by major motion picture studios, HDMI™ provides digital content that truly reflects the filmmaker's original vision. To support secure one-way transfer of digital content, the HM-DT100 and HM-DH5 feature HDMI™ output with content protection technology called HDCP.

Plus, HDMI™ also transfers video from existing standard definition analog sources, after conversion to progressive 480p digital video for greatly improved image quality. And, since this breakthrough technology's single cable handles both video and multi-channel audio, it makes cabling complications a thing of the past.

* Copy protected contents cannot be transferred through the HDMI™ output to any device not equipped with an HDCP-compliant connector. Please be sure to connect to or via HDCP-compliant devices.

** HDMI™ is compatible with DVI-D so an HDMI™ cable can be connected to a DVI-D-compatible TV display using a DVI conversion cable. However, please be sure to verify that the source unit is HDCP-compliant.

*** The DVI-D cable does not carry audio signals.

Full Spec HDTV Compatible

When it comes to HDTV recording, nothing compares to JVC's D-VHS. With a 28.2 Mbps HS mode that exceeds the 19 Mbps specification of ATSC MPEG-2 HD broadcasting formats, D-VHS captures the full HDTV signal with no data loss whatsoever. And since a single D-VHS DF-480 tape holds up to 50 gigabytes of data, all that picture and sound information can be recorded in its original, full-quality 1080i or 720p broadcast form for up to 4 hours. Of course, D-VHS also records up to 8 or even 24 hours of standard definition sources such as 480p* and 480i digital broadcasts in D-VHS's 14.1 Mbps STD and LS3 modes.

* Depending on the bit-rate, HS mode may be applicable.

D-VHS Recording Modes

Mode	Data Rate	Max. Recording Time			When to Use
		DF-300	DF-420	DF-480*	
HS	28.2 Mbps	2.5 hrs.	3.5 hrs.	4 hrs.	For directly recording HD digital broadcasts with HD quality. Highest quality recording of any digital or analog source.
STD	14.1 Mbps	5 hrs.	7 hrs.	8 hrs.	To digitally record from digital or analog sources with SD quality.
LS3	4.7 Mbps	15 hrs.	21 hrs.	24 hrs.	To record a large number of programs on a single cassette with average DVD quality.

* Please check for availability.

HDTV Compatible MPEG-2 HD Decoder and HDTV Component Output

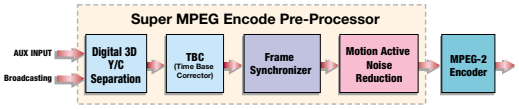
In addition to HDMI™ digital-to-digital connection, the HM-DT100 and HM-DH5 also support analog connection. The MPEG-2 HD Decoder converts recorded MPEG-2 signals into Component output signals (Y/Pb/Pr). Connect directly to any HDTV or projector equipped with Component input terminals to enjoy the full quality of D-Theater™ software and other high-definition images.

MPEG-2 CODEC to Record Various Sources Digitally

The standard definition MPEG-2 encoder makes D-VHS digital recordings from NTSC analog sources, as well as converting signals from a connected MiniDV camcorder to MPEG-2 and recording them on D-VHS.

Super MPEG Encode Pre-Processor Enhances Analog Signals for Digital Recording

To record analog sources in high-quality digital, the HM-DT100 and HM-DH5 use JVC's exclusive Super MPEG Encode Pre-Processor to eliminate the defects inherent in analog signals and create new digital recordings that actually appear to surpass the original quality. Its Time Base Corrector (TBC) eliminates jitter, Frame Synchronizer corrects frame crossover jitter and processes any deviant frames, and Motion Active Noise Reduction circuit removes noise from both still and moving parts of video pictures. The decks digitally encode and record the now pristine NTSC-compliant analog input signals, free of image lag, smear and MPEG artifacts such as mosquito noise.



5.1ch Dolby Digital Sound

DOLBY DIGITAL

The D-VHS decks record high-definition broadcasts complete with 5.1ch surround sound. In addition, HDMI™ and the optical digital audio output make it easy to connect and enjoy outstanding audio performance on your home theater sound system.

Linear PCM Digital Audio Capability

Thanks to the HM-DT100 and HM-DH5's 48kHz/16-bit linear PCM recording in either HS or STD mode, you can record full quality linear PCM digital sound from a MiniDV camcorder connected via i.LINK. You can also record high-quality soundtracks from analog sources in this non-compressed digital format to accompany the resulting high-quality digital image. The PCM audio data rate uses 1.6 Mbps out of the 28.2 Mbps HS and 14.1 Mbps STD modes.

i.LINK Terminals

IEEE 1394 (i.LINK) digital interface terminals with DTCP* content protection technology on the front and rear of the HM-DT100 and HM-DH5 allow you to easily connect with i.LINK compatible devices such as a MiniDV or high-definition camcorders for convenient digital-to-digital dubbing. You can also connect the HM-DH5 with a Digital Set-Top Box (STB) to transfer and record HD and SD broadcast digital signals**.

* DTCP (Digital Transmission Content Protection) protects digital content from unauthorized copying. Copy-protected contents cannot be recorded via i.LINK terminals. Connected digital devices must be DTCP-compatible to playback copy-protected digital content.

** Service depends on whether the digital stream provided by cable systems conforms to the ATSC format.

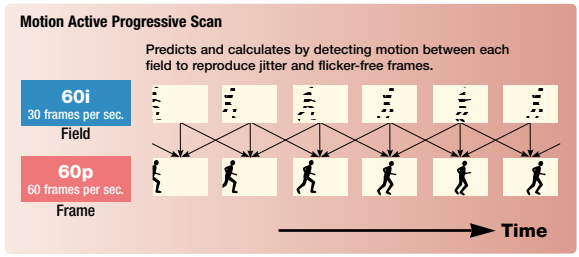
Playback Picture Format Converter

You can choose the output format that matches your current home theater environment, as well as any system upgrades you make later on.

Recorded Format	Playback Output		
	HDMI™	Analog	i.LINK (IEEE 1394)
1080i	1080i/480p/480i	1080i/480p/480i	1080i
720p	1080i/720p/480p/480i	1080i/720p/480p/480i	720p
480p	480p/480i	480p/480i	480p
480i	480p/480i	480p/480i	480i

Motion Active Progressive Scan for Enhanced Big-Screen Performance

The ideal companion for your large-screen display, the HM-DT100 and HM-DH5 incorporate JVC's exclusive Motion Active Progressive Scan circuit to up-convert standard interlace 480i signals to progressive 480p, eliminating inferior image quality on larger screens. Using sophisticated motion detection circuitry for pixel compensation, JVC's Motion Active Progressive Scan circuit eliminates jitter and flicker to produce smoother, cleaner images that come close to matching the quality of true progressive scan sources. Since this minimizes the normal picture degradation as display screens get larger, S-VHS and VHS tapes will look better than ever when you play them on the decks.



D-THEATER™

D-Theater™ Software Compatible

With JVC's D-VHS recorders, you can now enjoy more than 100 high-definition titles including D-Theater™ movies released by major motion picture studios such as Lions Gate Entertainment*, Universal Pictures, Twentieth Century Fox Home Entertainment and DreamWorks Home Entertainment. The finest Hollywood has to offer, these releases are recorded in full capacity D-VHS HS mode, offering quality actually surpassing the HDTV digital broadcast standard. In addition to superior picture quality, you get astounding audio. The D-VHS recorders support 5.1ch Dolby Digital with full-rate (576 to 640bps) DTS sound – 1.5 to 2 times the possible DVD audio rate – thus bringing out all of the subtle nuances and dynamic impact of 5.1ch movie soundtracks.

* Distributed under Artisan Home Entertainment.

Please visit **www.dvhsmovie.com** *for new title releases.*

HM-DT100

HM-DH5

D-VHS HDTV Recorder with Built-in ATSC Digital Tuner

HM-DT100

D-VHS HDTV Recorder with Built-in ATSC Digital Tuner gives you full access to ATSC digital terrestrial broadcasts and records full HDTV images with no quality loss

- Playable Formats: D-VHS, D-Theater, S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- Plays D-Theater tapes • VHS Hi-Fi Stereo with MTS/SAP Decoder

- Integrated Digital HDTV Receiver (Built-in ATSC Tuner)
- Digital interface HDMI™ (High-Definition Multimedia Interface)
  - HDCP (High-bandwidth Digital Content Protection) copyright protection technology
  - MPEG-2 decoder built-in
- Motion Active Progressive Scan Output (for analog tuner and S-VHS/VHS Hi-Fi sources)
- 4-Hr. HDTV Digital Broadcast bit-stream recording/playback with HS Mode (DF-480 tape)
- Super MPEG Encode Pre-Processor: Time Base Corrector (TBC), Frame Synchronizer and Motion Active Noise Reduction
- Optical Digital Audio Output — 5.1ch Dolby Digital/2ch Linear PCM/DTS
- Linear PCM Digital Audio Soundtrack Recording
  - 5.1ch Dolby Digital at 576 to 640bps or full-rate DTS sound — 1.5 to twice the audio rate possible with DVD
- DigiPure Technology
- Auto HS/STD mode select
- Can record any type of broadcast; Digital HD, SD or Analog SD
- MPEG-2 CODEC encoding/decoding for Digital Recording of NTSC sources
  - 8-Hr. Digital Recording in STD Mode in higher than DVD Quality (up to 500 TV lines/H) (PCM Audio Rate 1.6 Mbps)
  - 24-Hr. Digital Recording in LS3 Mode in average DVD Quality (up to 400 TV Lines/H)

D-VHS Digital HDTV Recorder

HM-DH5

D-VHS Digital HDTV Recorder featuring built-in HDMI™ digital interface that delivers uncompressed digital video and audio signals for lossless images and astounding sound

- Playable Formats: D-VHS, D-Theater, S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- Plays D-Theater tapes • VHS Hi-Fi Stereo with MTS/SAP Decoder

- Digital interface HDMI™ (High-Definition Multimedia Interface)
  - HDCP (High-bandwidth Digital Content Protection) copyright protection technology
  - MPEG-2 decoder built-in
  - Motion Active Progressive Scan Output (for analog tuner and S-VHS/VHS Hi-Fi sources)
- Digital Set-Top Box (STB) Ready with digital-to-digital connection via i.LINK (IEEE 1394) Terminal from STB or Integrated HDTV
- 4-Hr. HDTV digital broadcast bit-stream recording/playback with HS Mode (DF-480 tape)
- Super MPEG Encode Pre-Processor: Time Base Corrector (TBC), Frame Synchronizer and Motion Active Noise Reduction
- Optical Digital Audio Output — 5.1ch Dolby Digital/2ch Linear PCM/DTS
- Linear PCM Digital Audio Soundtrack Recording
- 5.1ch Dolby Digital at 576 to 640bps or full-rate DTS sound — 1.5 to twice the audio rate possible with DVD
- Auto HS/STD mode select
- DigiPure Technology
- Can record any type of broadcast; Digital HD, SD or Analog SD
- MPEG-2 CODEC encoding/decoding for digital recording of NTSC sources
  - 8-Hr. digital recording in STD Mode in higher than DVD quality (up to 500 TV lines/H) (PCM Audio Rate 1.6 Mbps)
  - 24-Hr. digital recording in LS3 Mode in average DVD quality (up to 400 TV Lines/H)

The Dual-Deck Advantage

DVD Player | VHS Recorder

HDMI™ Output (DVD)

HDMI™ transmits uncompressed digital video and audio signals to your display delivering the highest quality images and sound. This cable handles both video and multi-channel audio allowing for easy system setup.

Progressive Scan Output

When viewing a movie on pre-recorded DVD, Progressive Scan Output lets the original progressive data (film is inherently progressive) be output without converting to interlace data, so there is no quality loss and the picture remains true to the original film source.

Interlace Scanning

Progressive Scanning

Multi-Media Playback

Our versatile DVD/Video combination decks offer all the picture quality and rapid access of DVD, DVD-RW/-R, DVD+RW/+R plus recording on videocassette, as well as playback of tapes you've accumulated over the years. The disc player also supports CD and CD-R/RW playback, including CD Audio, JPEG files, and Video CD/SVCD to accommodate modern audiovisual lifestyles.

DVD to VHS Direct Rec.*

Allows you to copy DVD material directly to VHS tapes for viewing on VHS decks.

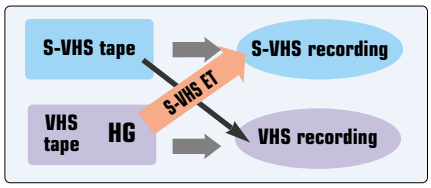
* Not possible with copy-protected DVD content.

Super Picture Quality

Super VHS High Resolution

With more than 400 lines of horizontal resolution, Super VHS delivers +60% sharper picture quality than conventional analog video. Ideal for viewing on large-screen TVs and making master tapes.

Super VHS ET (Expansion Technology)*



An innovation that puts higher quality within everybody's reach, this advanced function lets you record Super VHS signals on the more widely available VHS tapes**, so you can enjoy +60% sharper picture quality at the touch of a button.

* Only SP mode recording and playback is available for Super VHS ET.
** JVC's EHG (Extra High Grade) tapes recommended. There are some S-VHS VCR models by JVC and other manufacturers with which playback of an S-VHS ET recorded tape is not possible.

Active Video Calibration

Active Video Calibration automatically judges video head condition and calibrates tape quality to optimize long-term picture performance.

Convenient & Easy Operation

Plug & Play*

Simply follow the instructions on the on-screen menu, and set-up starts automatically. Automatic tuner setting, VCR Plus+ Guide Channel setting, and clock setting greatly simplify video deck installation. (Whether all Plug & Play facilities are functional may differ by region.)

* Where applicable.

SQPB (S-VHS Quasi Playback)

Allows playback of Super VHS* tapes with regular VHS resolution.

* In SP mode.

Express Programming

Easy manual programming via a single row of buttons on the remote.

Convenient MiniDV Features

MiniDV Recorder | VHS Recorder

Easy PC Connectivity and NLE Compatibility (MiniDV/S-VHS/VHS ↔ PC)

Simplifies getting your video footage to your PC for non-linear editing (NLE), and once you're done editing, getting the final result back to video, whether MiniDV or Super VHS/VHS, is equally easy. i.LINK (IEEE 1394 compliant) connectivity and tested compatibility with many major NLE systems* will put your editing suite into the digital age.

* For compatible systems, please consult an authorized JVC dealer.

64-Program "EasyEdit" (MiniDV → S-VHS/VHS)

"EasyEdit" with Random Assemble Editing lets you choose up to 8 segments at a time on the MiniDV tape, and at the touch of a button they're automatically copied over to S-VHS/VHS. And since up to 8 pre-set programs can be stored in memory, this function lets you keep the information of 64 segments (8 x 8) in the deck to make additional copies by simply calling up the program number.

One-Touch Dubbing (MiniDV ↔ S-VHS/VHS)

If you just want a straight dub, let the HR-DVS3 dub the contents of the MiniDV tape over to S-VHS/VHS, or vice versa, at the touch of a single button.

MiniDV Format

The HR-DVS3's built-in MiniDV recorder produces a high-resolution picture with over 500 lines of horizontal resolution, and breathtaking colors with approx. 3 times the bandwidth of conventional video.

HR-XVC39S

HR-XVC17S

DVD Video Player & VHS Hi-Fi Stereo Video Recorder Combo

HR-XVC39S HR-XVC38B

DVD Player | VHS Recorder

2-in-1 Combo Deck featuring HDMI™ Digital Output that delivers uncompressed digital video and audio signals and allows for easy connection

- Playable Formats: VHS Hi-Fi, DVD-Video, DVD-RW (VR & Video Format)/-R (Video Format), +RW/+R (Video Format), CD, SVCD, VCD, CD-R/RW, JPEG Digital Still (CD-R/RW)
- SQPB (S-VHS Quasi Playback)
- VHS Hi-Fi Stereo with MTS Decoder

- HDMI™ Digital Output for lossless, noiseless images and easy connection. Signals are output via HDMI™ (1080i/720p Up-Conversion). (DVD)
- Progressive Scan Output for high-resolution images
- DVD to VHS Direct Rec.* allows dubbing from DVD to VHS
- 30-Sec. Commercial Skip makes it easier to zip past commercials
- 3D Surround Sound
- 14-bit/108MHz Video D/A Converter
- 96kHz/24-bit Audio D/A Converter
- New, slim design saves space

* Not possible with copy-protected DVD content.

HR-XVC38B

DVD Video Player & VHS Hi-Fi Stereo Video Recorder Combo

HR-XVC17S HR-XVC16B

DVD Player | VHS Recorder

This slim DVD/VCR Player Combo features Progressive Scan for high-quality image output and convenient functions such as 30-Sec. Commercial Skip.

- Playable Formats: VHS Hi-Fi, DVD-Video, DVD-RW/-R (Video Format), +RW/+R (Video Format), CD, SVCD, VCD, CD-R/RW, JPEG Digital Still (CD-R/RW)
- SQPB (S-VHS Quasi Playback)
- VHS Hi-Fi Stereo with MTS Decoder

- Progressive Scan Output for high-resolution images
- DVD to VHS Direct Rec.* allows dubbing from DVD to VHS
- 30-Sec. Commercial Skip makes it easier to zip past commercials
- 10-bit/54MHz Video D/A Converter (Progressive)
- 96kHz/24-bit Audio D/A Converter
- New, slim design saves space

* Not possible with copy-protected DVD content.

HR-XVC16B

HR-DVS3

HR-S5912

MiniDV/Super VHS Hi-Fi Stereo Video Cassette Recorder

HR-DVS3

MiniDV Recorder | VHS Recorder

MiniDV and VCR Combo Deck allows easy playback of MiniDV, editing from MiniDV to S-VHS/VHS and connectivity with Non-Linear Editing systems

- Playable Formats: MiniDV, S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- VHS Hi-Fi Stereo with MPX Decoder

- MiniDV Format
- Easy PC Connectivity and NLE Compatibility (MiniDV/S-VHS/VHS ↔ PC)

- One Touch Dubbing (MiniDV ↔ S-VHS/VHS) — A single touch of a button lets you dub contents from a MiniDV tape to an S-VHS/VHS tape and vice versa.
- 64-Program "EasyEdit" (MiniDV → S-VHS/VHS) lets you choose up to 8 segments at a time on the MiniDV tape, and automatically copy to S-VHS/VHS. Thus with the 8 pre-set programs stored in memory, you can keep 64 segments in the deck.

- DV Input/Output terminals permit editing and dubbing of MiniDV content from a digital video camera
- DigiPure Technology improves the image quality on your S-VHS/VHS tape recordings
- PCM Digital Audio (MiniDV)
- Advanced Jog (S-VHS/VHS)

Super VHS Hi-Fi Stereo Video Cassette Recorder

HR-S5912 HR-S5902

Super VHS Hi-Fi VCR with pro-style editing features

- Playable Formats: S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- VHS Hi-Fi Stereo with MTS Decoder

- Super VHS High Resolution plus Super VHS ET Recording for +60% sharper pictures

- Reliable Timer Recording (VCR Plus+, Rec Link, Express Programming, 24-Hr Quick Programming)
- Insert Editing with Flying Erase Head/Audio Dubbing for pro-style editing
- Advanced Jog Dial allows frame-by-frame playback, variable speed slow motion and search

- Multi-Brand TV/Cable/DBS Compatible Remote with Glow-Keys

HR-S5902

HR-S3912

HR-S2902

HR-J692

Super VHS Hi-Fi Stereo Video Cassette Recorder

HR-S3912 HR-S3902

Super VHS Hi-Fi VCR with multi-functional Advanced Jog Dial

Super VHS ET S-VHS Hi-Fi STEREO VCR Plus+

- Playable Formats: S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- VHS Hi-Fi Stereo with MTS Decoder
- Super VHS High Resolution plus Super VHS ET Recording for +60% sharper pictures
- Reliable Timer Recording (VCR Plus+, Rec Link, Express Programming, 24-Hr Quick Programming)
- Active Video Calibration for best possible performance with any grade of tape
- Advanced Jog Dial allows frame-by-frame playback, variable speed slow motion and search
- Multi-Brand TV/Cable/DBS Compatible Remote

HR-S3902

Super VHS Hi-Fi Stereo Video Cassette Recorder

HR-S2902

Super VHS Hi-Fi VCR with +60% sharper pictures that are ideal for viewing on large screen TVs

Super VHS ET S-VHS Hi-Fi STEREO

- Playable Formats: S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- VHS Hi-Fi Stereo with MTS Decoder
- Super VHS High Resolution plus Super VHS ET Recording so you can enjoy +60% sharper pictures
- Express Programming enables easy manual programming
- Active Video Calibration for best possible performance with any grade of tape
- Plug & Play for simple video deck installation

VHS Hi-Fi Stereo Video Cassette Recorder

HR-J692

VHS Hi-Fi VCR with Express Programming for easy manual timer setting

VHS SQPB Hi-Fi STEREO

- Playable Format: VHS Hi-Fi
- SQPB (S-VHS Quasi Playback)
- VHS Hi-Fi Stereo with MTS Decoder
- Express Programming enables easy manual programming
- Plug & Play for simple video deck installation
- Picture Control — 4 different settings to match the material you are viewing (NORM, EDIT, SOFT, SHARP)

JVC is introducing an exciting new lifestyle packaging concept to showcase the full range of high-quality blank media products that we provide to the world.

DVD Models

In addition to the DVD models listed below, JVC also offers DVD+R and DVD+RW models.

DVD-R

DVD R R4.7

VDR47GU50

50 pack spindle, 16x speed

UPC Code: 0-46838-02543-3 **Master:** 5

VDR47GU30

30 pack spindle, 16x speed

UPC Code: 0-46838-02542-6 **Master:** 10

VDR47GUP50

50 pack white printable spindle, 16x speed

UPC Code: 0-46838-02544-0 **Master:** 5

VDR47GU5

5 pack, 16x speed

UPC Code: 0-46838-02541-9 **Master:** 10

DVD-RW

DVD RW

VDW47DU5

5 pack, 2x speed

UPC Code: 0-46838-01449-9 **Master:** 10

VDW47GU5

5 pack, 6x speed

UPC Code: 0-46838-02538-9 **Master:** 10

DVD-RAM

DVD RAM RAM4.7

VDM47EU5

5 pack, 3x speed

UPC Code: 0-46838-01498-7 **Master:** 10

Digital VHS Models

D-VHS

D-VHS

DF300AU

Single, 300 min. digital VHS video cassette

UPC Code: 0-46838-00516-9 **Master:** 50

DF420AU

Single, 420 min. digital VHS video cassette

UPC Code: 0-46838-00577-0 **Master:** 50

HDD/DVD/MiniDV Video Recorder Combo

		DR-DX5SUS		
		HDD	DVD	MiniDV
MECHANISM/SERVO				
Playable Formats	DVD-Video		●	
	DVD-RAM/-RW (VR & Video)/-R (Video)		●/●/●	
	CD-DA		●	
	CD-R/RW		●	
	SVCD/VCD		●/●	
	MP3 (CD-R/RW)		●	
	WMA (CD-R/RW)		●	
	JPEG Digital Still (CD-R/RW)		●	
Recordable Formats	DVD-RAM/-RW (VR & Video)/-R (Video)		●/●/●	
HDD Capacity		250GB		
PAL Playback on NTSC TV			●	
AUDIO				
Output Level		2.0V RMS		
Recording Audio Format		Dolby Digital/Linear PCM (XP Mode Only)		PCM 48/32kHz
Audio D/A Converter		192kHz/24-bit		
Dolby Digital/DTS Digital Out		●/-	●/●	
Virtual Surround			●	
Audio Dubbing (12-bit x 2-Channel)				●
VIDEO				
Horizontal Resolution (Recording and Playback: XP/SP)		Approx. 500 Lines		
Recording Video Format		NTSC MPEG-2		NTSC DV
Recording Time (Approx.)	XP	53 Hours	1 Hour	
	SP	109 Hours	2 Hours	80 Minutes (DV80 Tape)
	LP	218 Hours	4 Hours	120 Minutes (DV80 Tape)
	EP	328 Hours	6 Hours	
	FR	53-473 Hours (63-Step)	1-8 Hours (63-Step)	
Video D/A Converter		10-bit/54MHz		
Progressive Scan Output	Film Source	● (Digital Direct Progressive Scan)		
	Video Source	● (Motion Active Progressive Scan)		
Super MPEG Encode Pre-Processor	Time Base Corrector	●		
	Frame Synchronizer	●		
	Motion Active Noise Reduction	●		
Super MPEG Post-Processor	Block Noise Reduction Circuit	●		
	Color DigiPure	●		
	Hadamard Noise Reduction System	●		
Live Memory		●	● (DVD-RAM)	
RetroActive Recording		●		
Relief Recording		●		
Auto 16:9 Record & Playback			●	
EDITING/DUBBING				
6-Way Dubbing			●	
Bit-Rate Optimizer (Intelligent Dual-Pass Encode Dubbing System) (HDD→DVD)			●	
Freezeless Editing for DVD Disc (HDD→DVD)			●	
HDD→DVD High-Speed Dubbing (Max. 64x)		● (RAM 5x, -RW 4x, -R 8x)		
Playlist-Based Editing			●	
Insert Editing				●
DVD-R Menu Screen with Thumbnail (18 Designs)			●	
PLAYBACK FUNCTION				
Library Database DVD Navigation			● (Max. 600 Discs/ 2,000 Titles)	
Animated Thumbnail on HDD/DVD Navigation		●	● (DVD-RAM/ DVD-RW VR)	
1.5x Quick Playback with Sound		●		
Variable Search (Forward/Reverse)		±4 Steps		+3 Steps
Variable Slow (Forward/Reverse)		±3 Steps		±1 Steps
Natural Reverse Playback (-1x)			●	
Time Skip		● (15 Min./30 Min./1 Hr.)		
Quick Skip (30-Sec. FWD Skip)			●	
One-Touch Replay			● (7 Sec.)	
Resume Function		● (with Title)	● (DVD-Video: 30-Disc/DVD-VR: On Library)	
Number of Titles		200	99	
FF/REW Speed				100 Sec.
Next Function Memory				● (REW→PLAY, EJECT)
TUNER				
MTS Decoder			●	
Channel Storage			181 ch	
Plug & Play			●	
TIMER				
Timer Program		1-Year/32-Program		
VCR Plus+			●	
Permanent Program Memory			●	
TERMINALS				
Front	S-Video In		●	
	Composite In		●	
	Audio L/R In		●	
Rear	RF In/Out		●/● (w/o Converter)	
	Component Out		●	
	S-Video In/Out		● (1)/● (2: HDD/DVD/DV x 1; HDD/DVD x 1)	
	Composite In/Out		● (1)/● (2: HDD/DVD/DV x 1; HDD/DVD x 1)	
	Audio L/R In/Out		● (1)/● (2: HDD/DVD/DV x 1; HDD/DVD x 1)	
	Optical Digital Out		●	
	Coaxial Digital Out		●	
DV In/Out			●/-	●/●
MISCELLANEOUS				
On-Screen Display	GUI (Graphical User Interface)		●	
	On-Screen Language		English/French/Spanish	
Multi-Brand Remote			●	
GENERAL				
Power Backup Time			60 Min.	
Power Requirements			AC 120V/60Hz	
Power Consumption	Power On		49.0W	
	Standby		12.0W	
Dimensions (W x H x D)	inches		$17^{3}/_{16}$ x $3^{13}/_{16}$ x $15^{1}/_{8}$	
	mm		435 x 96 x 383	
Weight	lbs.		14.1	
	kg		6.4	

DVD-RAM cartridges not supported.

Notice: The non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, use of the non-DVD side of a DualDisc on these products is not recommended.

DVD Video Recorder & VHS Hi-Fi Stereo Video Recorder Combo

		DR-MV7SUS	
		DVD	VHS
MECHANISM/SERVO			
Playable Formats	DVD-Video	●	
	DVD-RAM/-RW/-R/ +RW/+R	-/●/●/●/●	
	CD-DA	●	
	CD-R/RW	●	
	SVCD/VCD	●/●	
	MP3 (CD-R/RW, DVD-R/RW, +R/+RW)	●	
	WMA (CD-R/RW, DVD-R/RW, +R/+RW)	●	
	JPEG Digital Still (CD-R/RW, DVD-R/RW, +R/+RW)	●	
	DivX®* (CD-R/RW, DVD-R/RW, +R/+RW)	● (Ver. 5)	
Recordable Formats	DVD-RAM/-RW/-R/ +RW/+R	-/●/●/●/●	
PAL Playback on NTSC TV		●	
AUDIO			
Output Level		2.0V RMS	
Recording Audio Format		Dolby Digital	VHS Hi-Fi
Audio D/A Converter		192kHz/24-bit	
Dolby Digital/DTS Digital Out		●/●	
VIDEO			
Horizontal Resolution (Recording and Playback: XP/SP)		Approx. 500 Lines	
Recording Video Format		NTSC MPEG-2	NTSC
Recording Time (Approx.)	XP	1 Hour 20 Min.	
	SP	2 Hours	2 Hours (T-120 Tape)
	LP	4 Hours	
	EP	6 Hours	6 Hours (T-120 Tape)
Video D/A Converter		10-bit/54MHz (Progressive Scan)	
Progressive Scan Output	Film Source	●	
	Video Source	●	
EDITING/DUBBING			
Playlist-based Editing		●	
DVD+↔VHS Dubbing		●	
PLAYBACK FUNCTION			
1.5x Quick Playback with Sound		●	
Variable Search (Forward/Reverse)		±5 Steps	±1 Steps
Variable Slow (Forward/Reverse)		±4 Steps	+1 Steps
Natural Reverse Playback (-1x)		●	
Resume Function		●	
Number of Titles		99 (+VR Mode: 49)	
SQPB			●
FF/REW Speed			180 Sec. (T-120 Tape)
TUNER			
MTS Decoder		●	
Channel Storage		181 ch	
TIMER			
Timer Program		1-Month/16-Program	
Permanent Program Memory		●	
TERMINALS			
Front	S-Video In	●	
	Composite In	●	
	Audio L/R In	●	
Rear	RF In/Out	●/●	
	Component Out	●	
	S-Video In/Out	-/●	
	Composite In/Out	●/●	
	Audio L/R In/Out	●/●	
	Optical Digital Out	●	
	Coaxial Digital Out	●	
HDMI Digital Output		● (1080i/720p Up-Conversion)	
DV In/Out		●/-	
MISCELLANEOUS			
On-Screen Display	GUI (Graphical User Interface)	●	
	On-Screen Language	English/French/ Spanish/Portuguese	
Remote Control		●	
GENERAL			
Power Backup Time		3 Sec.	
Power Requirements		AC 120V/60Hz	
Power Consumption	Power On	27.0W	
	Standby	0.7W	
Dimensions (W x H x D)	inches	$16^{15}/_{16}$ x $3^{1}/_{8}$ x $12^{1}/_{4}$	
	mm	430 x 78.5 x 310	
Weight	lbs.	16.5	
	kg	7.5	

DVD-RAM cartridges not supported.

* Plays DivX®5, DivX®4, DivX®3, and DivX® VOD video content.

Notice: The non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, use of the non-DVD side of a DualDisc on these products is not recommended.

D-VHS Recorders

		HM-DT100	HM-DH5
MECHANISM/SERVO			
Head Configuration	D-VHS	5 Head	5 Head
	VHS	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head
AUDIO			
Recording Audio Format	D-VHS	Linear PCM or MPEG-1	Linear PCM or MPEG-1
	VHS	Hi-Fi	Hi-Fi
Dolby Digital/DTS/MPEG Digital Out		●/●/● (D-VHS)	●/●/● (D-VHS)
VIDEO			
Recording Video Format	D-VHS	DVB Standard MPEG-2 TS	DVB Standard MPEG-2 TS
	VHS	NTSC S-VHS/VHS	NTSC S-VHS/VHS
S-VHS ET Recording		● (S-VHS)	● (S-VHS)
Recording Time (Approx.)*	HS	4 hours (28.2 Mbps) (D-VHS)	4 hours (28.2 Mbps) (D-VHS)
	STD	8 hours (14.1 Mbps) (D-VHS)	8 hours (14.1 Mbps) (D-VHS)
	LS3	24 hours (4.7 Mbps) (D-VHS)	24 hours (4.7 Mbps) (D-VHS)
Recording and Playback Speeds**	D-VHS	LS3/STD/HS/LP/EP/SP	LS3/STD/HS/LP/EP/SP
	VHS	SP/EP	SP/EP
Motion Active Progressive Scan Output		● (S-VHS/VHS)	● (S-VHS/VHS)
Super MPEG Encode Pre-Processor	Time Base Corrector	● (S-VHS/VHS)	● (S-VHS/VHS)
	Frame Synchronizer	● (S-VHS/VHS)	● (S-VHS/VHS)
	Motion Active Noise Reduction	● (S-VHS/VHS)	● (S-VHS/VHS)
DigiPure Technology		● (S-VHS/VHS)	● (S-VHS/VHS)
	Frame Memory	Over 4MB	Over 4MB
A.V. Calibration		● (S-VHS/VHS)	● (S-VHS/VHS)
PLAYBACK FUNCTION			
Navigation	D-VHS	● (Chapter)	● (Chapter)
	VHS	Over 1000 Titles	Over 1000 Titles
Variable Search (Forward/Reverse)		● (S-VHS/VHS)	● (S-VHS/VHS)
Variable Slow (Forward/Reverse)		±1/6 (S-VHS/VHS)	±1/6 (S-VHS/VHS)
Shuttle Search		SP 11x, EP 31x, HS 6x, STD 12x, LS3 36x	SP 11x, EP 31x, HS 6x, STD 12x, LS3 36x
Index Search		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
Skip Search		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
Repeat Playback (up to 50x)		● (except LS3)	● (except LS3)
Picture Control		● (AUTO/EDIT/SOFT/SHARP) (S-VHS/VHS)	● (AUTO/EDIT/SOFT/SHARP) (S-VHS/VHS)
FF/REW Speed		About 65 Sec.	About 65 Sec.
Next Function Memory		REW→OFF, PLAY, TIMER, EJECT (D-VHS/S-VHS/VHS)	REW→OFF, PLAY, TIMER, EJECT (D-VHS/S-VHS/VHS)
TUNER			
Built-in ATSC Tuner		● (D-VHS/S-VHS/VHS)	
Broadcast Standard		M (D-VHS/S-VHS/VHS)	M (D-VHS/S-VHS/VHS)
Stereo Decoder		MTS (D-VHS/S-VHS/VHS)	MTS (D-VHS/S-VHS/VHS)
Channel Storage		181 ch + ATSC Max. 250 ch (D-VHS/S-VHS/VHS)	181 ch (D-VHS/S-VHS/VHS)
Plug & Play		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
TIMER			
Timer Program		1-Year/24-Program (D-VHS/S-VHS/VHS)	1-Year/24-Program (D-VHS/S-VHS/VHS)
Express Programming		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
VCR Plus+		● (VCR+ C3 w/ Cable Box Control)	● (VCR+ C3 w/ Cable Box Control)
Rec Link		● (D-VHS)	● (D-VHS)
Permanent Program Memory		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
EPG		● (via ATSC) (D-VHS/S-VHS/VHS)	
TERMINALS			
Front	S-Video In	● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
	Audio L/R In	● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
Rear	Component Out	● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
	S-Video In/Out	● x 2/● x 2 (D-VHS/S-VHS/VHS)	● x 2/● x 2 (D-VHS/S-VHS/VHS)
	Composite Video In/Out	● x 2/● x 2 (D-VHS/S-VHS/VHS)	● x 2/● x 2 (D-VHS/S-VHS/VHS)
	Audio L/R In/Out	● x 2/● x 2 (D-VHS/S-VHS/VHS)	● x 2/● x 2 (D-VHS/S-VHS/VHS)
	Optical Digital Out	● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
	HDMI™ Digital Out	● (with HDCP) (D-VHS/S-VHS/VHS)	● (with HDCP) (D-VHS/S-VHS/VHS)
i.LINK	In/Out	4-pin, DTCP Compatible DVB Standard MPEG-2 TS	4-pin, DTCP Compatible DVB Standard MPEG-2 TS
	In	DV x 2 (including front)	DV x 2 (including front)
RS-232C Connectable JLIP		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
AV Compu Link		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
GENERAL			
On-Screen Display	On-Screen Language	Eng. (D-VHS/S-VHS/VHS)	Eng. (D-VHS/S-VHS/VHS)
Multi-Brand Remote		● (Glow)	● (Glow)
Power Backup Time		10 Min.	10 Min.
Power Requirements		AC 120V/60Hz	AC 120V/60Hz
Power Consumption	Power On	45W	45W
	Standby	14W	14W
Dimensions (W x H x D)	in.	$17^{3}/_{16}$ x $3^{15}/_{16}$ x $15^{1}/_{8}$	$17^{3}/_{16}$ x $3^{15}/_{16}$ x $14^{13}/_{16}$
	mm	435 x 96 x 383	435 x 96 x 376
Weight	lbs.	12.8	11.2
	kg	5.8	5.1

* Using DF-480 cassette

** LP/EP mode recording and playback is not available for Super VHS ET.

DVD Video Players

		XV-N332S/N330B
MECHANISM		
System		NTSC
Type		Single
Playable Formats	DVD-Video	●
	DVD-RW	● (Video)
	DVD-R	● (Video)
	+RW/+R	●/● (Video)
	CD / CD-R/RW	●/●
	SVCD/VCD	●/●
	MP3	● (CD-R/RW)
	JPEG Digital Still	● (CD-R/RW)
Express Play Start		●
Rolling Pickup		●
Track Adjust		●
PAL Playback on NTSC TV		●
AUDIO		
Total Harmonic	16-bit	Less than 0.009%
Distortion	20/24-bit	Less than 0.009%
Frequency Response	CD (fs=44.1kHz)	2Hz - 20kHz
	DVD (fs=48kHz)	2Hz - 22kHz
	DVD (fs=96kHz)	2Hz - 44kHz
Output Level		2.0V RMS
Audio D/A Converter		192kHz/24-bit
Dolby Digital/DTS Digital Out		●
Sound Effect		●
VIDEO		
Horiziontal Resolution		500 Lines
Output Signal Level	Component - Y	1.0Vp-p/75 ohms
	Component - Pb/Pr	0.7Vp-p/75 ohms
	S-Video - Y	1.0Vp-p/75 ohms
	S-Video - C	0.3Vp-p/75 ohms
	Composite	1.0Vp-p/75 ohms
Digital Direct Progressive Scan		●
Video D/A Converter		10-bit/54MHz
VFP (Video Fine Processor)	No. of Parameters	7
	No. of Presets (Presets 2/Manual 2)	●
Vari-Play (Variable-Speed Playback) with Sound & Subtitles		● (1.5x/1.2x/ 1.0x/0.8x/0.6x)
Variable Search (Forward/Reverse)		●
Variable Slow (Forward/Reverse)		●
Disc Memory Resume Function		● (30 Discs)
Resume (Bookmark) Function		●
Zoom Play		● (3 Steps)
One-Touch Replay		● (10 Sec.)
TERMINALS		
Video Out	Component	●
	S-Video	●
	Composite	●
Audio Out	Front L/R	●
	Coaxial Digital	●
MISCELLANEOUS		
On-Screen Display	GUI (Graphical User Interface)	●
	On-Screen Language	Eng./Fre./Spa.
	Numerical Bit-Rate Indicator	●
	Language Indicator	●
	Screen Saver	●
Remote Control		●
GENERAL		
Power Requirements		AC 120V/60Hz
Power Consumption	Power On	11.0W
	Standby	1.0W
Dimensions (W x H x D)	inches	$17^{3}/_{16}$ x $1^{3}/_{4}$ x $7^{15}/_{16}$
	mm	435 x 44 x 201.5
Weight	lbs.	3.3
	kg	1.5

Notice: The non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard." Therefore, use of the non-DVD side of a DualDisc on these products is not recommended

Video Decks

		HR-XVC39S/XVC38B	HR-XVC17S/XVC16B	HR-S5912/S5902	HR-S3912/S3902	HR-S2902	HR-J692
MECHANISM/SERVO							
Head Configuration		DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head
Playable Formats	DVD-Video	● (DVD)	● (DVD)				
	DVD-RW (VR)	● (DVD)					
	DVD-RW/+RW (Video)	●/● (DVD)	●/● (DVD)				
	DVD-R/+R (Video)	●/● (DVD)	●/● (DVD)				
	SVCD	● (DVD)	● (DVD)				
	VCD	● (DVD)	● (DVD)				
	CD-DA	● (DVD)	● (DVD)				
	CD-R/RW	● (DVD)	● (DVD)				
	JPEG on CD-R/RW	● (DVD)	● (DVD)				
AUDIO							
Recording Audio Format		Hi-Fi (VHS)	Hi-Fi (VHS)	Hi-Fi	Hi-Fi	Hi-Fi	Hi-Fi
VHS Hi-Fi Stereo				●	●	●	●
Audio D/A Converter		96kHz/24-bit (DVD)	96kHz/24-bit (DVD)				
Dolby Digital/DTS Digital Out		●/● (DVD)	●/● (DVD)				
Sound Effect		3D Surround Sound (DVD)					
Audio Dubbing				●			
VIDEO							
Recording Video Format		NTSC VHS (VHS)	NTSC VHS (VHS)	NTSC S-VHS/VHS	NTSC S-VHS/VHS	NTSC S-VHS/VHS	NTSC VHS
S-VHS ET Recording				●	●	●	
Recording and Playback Speeds*		SP/SLP (VHS)	SP/SLP (VHS)	SP/EP	SP/EP	SP/EP	SP/EP
DVD to VHS Direct Rec.		●	●				
Video D/A Converter		14-bit/108MHz (DVD)	10-bit/54MHz (Progressive) (DVD)				
Progressive Scan Output		● (DVD)	● (DVD)				
A.V. Calibration				●	●	●	
EDITING/DUBBING							
Insert Editing				●			
Assemble Editing				●	A.F.E.	A.F.E.	
PLAYBACK FUNCTION							
Variable Search (Forward/Reverse)	DVD	●	●				
	VHS	●	●	●	●	●	●
Variable Slow (Forward/Reverse)	DVD	±1/2, ±1/4, ±1/6, ±1/7 (Forward Only)	±1/2, ±1/4, ±1/6, ±1/7 (Forward Only)				
	VHS	●	●	±1/6	±1/6	±1/6	±1/6, ±1/18
Shuttle Search		SP 5x, LP 9x, SLP 15x (VHS)	SP 5x, LP 9x, SLP 15x (VHS)	SP 7x, EP 21x	SP 7x, EP 21x	SP 7x, EP 21x	SP 5x, EP 7x
Index Search				●	●	●	●
Skip Search				●	●	●	●
30-Sec. Commercial Skip		● (VHS)	● (VHS)				
Repeat Playback (up to 100x)				●	●	●	●
SQPB (S-VHS Quasi Playback)		● (VHS)	● (VHS)				●
Picture Control				● (AUTO/EDIT/SOFT/SHARP)	● (AUTO/EDIT/SOFT/SHARP)	● (AUTO/EDIT/SOFT/SHARP)	● (NORM/EDIT/SOFT/SHARP)
FF/REW Speed		180 ±30 Sec. (VHS)	180 ±30 Sec. (VHS)	140 Sec.	140 Sec.	140 Sec.	140 Sec.
Next Function Memory				REW → OFF, PLAY, TIMER, EJECT	REW → OFF, PLAY, TIMER, EJECT	REW → OFF, PLAY, TIMER, EJECT	REW → OFF, PLAY, TIMER, EJECT
TUNER							
Broadcast Standard		M (VHS)	M (VHS)	M	M	M	M
Stereo Decoder		MTS (VHS)	MTS (VHS)	MTS	MTS	MTS	MTS
Channel Storage		99 ch (VHS)	99 ch (VHS)	181 ch	181 ch	181 ch	181 ch
Plug & Play				●	●	●	●
TIMER							
Timer Program		1-Year/8-Program (VHS)	1-Year/8-Program (VHS)	1-Year/8-Program	1-Year/8-Program	1-Year/8-Program	1-Year/8-Program
Express Programming				●	●	●	●
VCR Plus+				● (VCR+ C3 w/ Cable Box Control)	● (VCR+ C3 w/ Cable Box Control)		
Rec Link				●	●		
Permanent Program Memory				●	●	●	
TERMINALS							
Front	Composite Video In			●	●	●	●
	S-Video In			●	●	●	
	A/V In	● (VHS)	● (VHS)				
	Audio L/R In			●	●	●	●
Rear	Component Out	● (DVD)	● (DVD)				
	Composite Video In/Out	● (VHS)/● (DVD/VHS)	● (VHS)/● (DVD/VHS)	-/●	-/●	-/●	-/●
	S-Video In/Out	-/● (DVD)		●/●	●/●	-/●	
	Audio L/R In/Out	● (VHS)/● (DVD/VHS)	● (VHS)/● (DVD/VHS)	●/●	●/●	-/●	-/●
	Optical Digital Out	● (DVD)					
	Coaxial Digital Out	● (DVD)	● (DVD)				
HDMI™ Digital Out		● (1080i/720p Up-Conversion) (DVD)					
GENERAL							
On-Screen Display	On-Screen Language	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)
Remote Control		●	●	● (Multi-Brand; Glow)	● (Multi-Brand)	●	●
Jog/Shuttle on Deck				Advanced Jog	Advanced Jog		
Power Requirements		AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz
Power Consumption	Power On	16W	16W	16W	16W	16W	13W
	Standby	0.8W	0.8W	1.5W	1.5W	1.5W	1.5W
Dimensions (W x H x D)	in.	$16^{15}/_{16}$ x $3^{1}/_{8}$ x $10^{7}/_{16}$	$16^{15}/_{16}$ x $3^{1}/_{8}$ x $10^{7}/_{16}$	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{9}/_{16}$	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{9}/_{16}$	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{15}/_{16}$	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{9}/_{16}$
	mm	430 x 78.5 x 265	430 x 78.5 x 265	435 x 94 x 242	435 x 94 x 242	435 x 94 x 248	435 x 94 x 248
Weight	lbs.	9.3	9.3	5.9	5.9	5.9	5.9
	kg	4.2	4.2	2.7	2.7	2.7	2.7

* LP/EP mode recording and playback is not available for Super VHS ET.

MiniDV/Super VHS Hi-Fi Stereo Video Cassette Recorder

		HR-DVS3
MECHANISM/SERVO		
Head Configuration	MiniDV	Sx2
	VHS	DA-4 + Hi-Fi Audio 2 Head
AUDIO		
Recording Audio Format	MiniDV	PCM Digital
	VHS	Hi-Fi
Audio Dubbing		● (MiniDV/VHS)
VIDEO		
Recording Video Format	MiniDV	Digital
	VHS	NTSC S-VHS/VHS
S-VHS ET Recording		● (VHS)
Recording and Playback Speeds*		SP/EP (LP) (MiniDV/VHS)
DigiPure Technology		● (VHS)
	Frame Memory	2MB (VHS)
A.V. Calibration		● (VHS)
EDITING/DUBBING		
Insert Editing		● (MiniDV/VHS)
Assemble Editing		● (MiniDV→S-VHS/VHS)
One-Touch Dubbing		● (MiniDV↔S-VHS/VHS)
DV-to-DV Dubbing		● (MiniDV↔MiniDV)
PLAYBACK FUNCTION		
Variable Search (Forward/Reverse)	MiniDV	2 Steps
	VHS	●
Variable Slow (Forward/Reverse)	MiniDV	±1/10
	VHS	±1/6, ±1/18
Shuttle Search	MiniDV	SP, LP 9.5x
	VHS	SP 11x, EP 31x
Index Search		● (VHS)
Repeat Playback (up to 100x)		● (VHS)
Picture Control		● (AUTO/EDIT/SOFT/SHARP) (VHS)
FF/REW Speed		100 Sec. (MiniDV/VHS)
Next Function Memory		REW→OFF, PLAY, TIMER, EJECT (MiniDV/VHS)

		HR-DVS3
TUNER		
Broadcast Standard		M (MiniDV/VHS)
Stereo Decoder		MPX (MiniDV/VHS)
Channel Storage		181 ch (MiniDV/VHS)
Plug & Play		● (MiniDV/VHS)
TIMER		
Timer Program		1-Year/6-Program (MiniDV/VHS)
Express Programming		● (MiniDV/VHS)
VCR Plus+		● (MiniDV/VHS)
TERMINALS		
Front	Composite Video In	● (VHS)
	S-Video In	● (VHS)
	Audio L/R In	● (VHS)
	i.LINK	● (MiniDV)
Rear	Composite Video Out	● x 2 (MiniDV/VHS)
	S-Video Out	● x 2 (MiniDV/VHS)
	Audio L/R In/Out	-/● x 2 (MiniDV/VHS)
GENERAL		
On-Screen Display	On-Screen Language	3 Languages (Eng./Spa./Fre.)
Multi-Brand Remote		●
Jog/Shuttle on Deck		Advanced Jog
Power Requirements		AC 120V/60Hz
Power Consumption	Power On	31W
	Standby	6.5W
Dimensions (W x H x D)	in.	$17^{3}/_{16}$ x $4^{3}/_{16}$ x 15
	mm	435 x 106 x 380
Weight	lbs.	11.2
	kg	5.1

* LP/EP mode recording and playback is not available for Super VHS ET.

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